

CLAIMS:

1. An input apparatus for inputting information to an information processing device provided with a display, comprising:

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5 a coupling mechanism for detachably coupling to a predetermined portion formed in the information processing device;

a coordinate information generator for generating coordinate information depending on a movement on a flat surface to control a position of a cursor on the display of the information processing device; and
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a cable for electrically connecting the input apparatus to the information processing device.

2. The input apparatus according to claim 1, further comprising:

15 a battery accommodating portion for accommodating a battery which is used to supply power to the information processing device when the input apparatus is coupled to the predetermined portion of the information processing device by the coupling mechanism.

20 3. The input apparatus according to claim 2, further comprising:

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an electric contact portion for electrically connecting the battery to the information processing device when the input apparatus is coupled to the predetermined portion of the information processing device by the coupling mechanism.

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4. The input apparatus according to claim 3, wherein the information processing device includes a secondary battery, which is charged by the battery of the input apparatus when the input apparatus is coupled to the predetermined portion of the information processing device by the coupling mechanism.

5. The input apparatus according to claim 1, wherein the cable is allowed to be pulled out from a rewinding mechanism provided in the information processing device when the input apparatus is removed from the predetermined portion of the information processing device.

6. The input apparatus according to claim 1, further comprising:

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a connector connected to one end of the cable, for detachably connecting to the information processing device through the cable; and

a cable accommodating space formed in the input apparatus, for accommodating the cable with the connector

therein.

7. The input apparatus according to claim 1,
further comprising:

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5 at least two buttons which each functions as
right-click and left-click buttons of a mouse when the
input apparatus is separated from the predetermined portion
of the information processing device and functions as right
cursor key and left cursor key when the input apparatus is
coupled to the predetermined portion of the information
10 processing device by the coupling mechanism.

8. The input apparatus according to claim 7,
further comprising:

a keypad including a ten-key pad.

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15 9. A portable telephone apparatus comprising:
a display;
an information processing device;
an input device for inputting coordinate
information to the information processing device to control
a position of a cursor on the display, the coordinate
20 information varying depending on a movement on a flat
surface; and

a coupling mechanism for detachably coupling
the input device to a predetermined portion of the portable

10. The portable telephone apparatus according to claim 9, wherein the input device comprises:

11. The portable telephone apparatus according to claim 10, wherein the input device has a first electric contact portion and the predetermined portion of the portable telephone apparatus has a second electric contact portion, wherein the first and second electric contact portions are electrically connected to each other when the input device is coupled to the predetermined portion by the coupling mechanism.

a secondary battery, which is charged by the battery of the input device when the input device is coupled to the predetermined portion by the coupling mechanism.

13. The portable telephone apparatus according to claim 9, wherein the coordinate information is transferred from the input device to the information processing device through a cable.

5 14. The portable telephone apparatus according to claim 9, wherein the coordinate information is transferred from the input device to the information processing device by wireless.

10 15. The portable telephone apparatus according to claim 9, wherein the information processing device controls the input device so that it functions as a keypad of the portable telephone apparatus when the input device is coupled to the predetermined portion by the coupling mechanism and functions as a pointing device when the input
15 device is not coupled to the predetermined portion.

16. The portable telephone apparatus according to claim 9, wherein the input device is a pointing device.

17. The portable telephone apparatus according to claim 16, wherein the pointing device is a mouse having at
20 least a right-click key and a left-click key.

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